

WHAT IS CLAIMED IS:

- 5 1. A portable infusion system that is programmable by an individual for delivering fluid from a reservoir into a user, the infusion system comprising:
- 10 a drive mechanism that forces the fluid out of the reservoir;
an input device that accepts one or more inputs;
a processor that uses one or more of the one or more inputs to control the drive mechanism; and
a display that receives information from the processor and visually displays one or more
15 screens containing the information,
wherein at least one of the one or more screens includes a menu with at least two menu items, and
wherein the input device is used to select one menu item from amongst the at least two menu items.
- 20 2. An infusion system according to claim 1, wherein the processor runs energy management software that changes the display to a Blank Screen after a Time-Out delay has expired.
- 25 3. An infusion system according to claim 1, that includes a means to store a maximum bolus that is programmable using the input device, wherein the maximum bolus limits the maximum units of fluid that can be delivered in a single bolus.
4. An infusion system according to claim 1, that includes a means to store a maximum basal rate that is programmable using the input device, wherein the maximum basal rate limits the maximum rate that units of fluid that can be delivered during a basal fluid delivery.

5. An infusion system according to claim 1, that includes a means to store one or more basal profiles that are programmable using the input device.

6. An infusion system according to claim 1, that includes one or more alarm types that are programmable using the input device.

7. An infusion system according to claim 1, that includes a means to store an insulin type that is programmable using the input device.

8. An infusion system according to claim 1, including a means to store a reservoir type that is programmable using the input device.

9. An infusion system according to claim 1, including a means to reset control parameters to factory default values.

10. An infusion system according to claim 1, including a means to reset control parameters to values set by a health care professional.

11. An infusion system according to claim 1, including an alarm wherein the alarm intensity changes with time.

12. An infusion system according to claim 1, wherein selection of at least one of the at least two menu items causes the drive mechanism to reverse direction.

13. An infusion system according to claim 1, wherein selection of at least one of the at least two menu items causes the infusion system to begin a selftest.

14. An infusion system according to claim 1, wherein a numeric value displayed in at least one screen has a number to the right of a decimal point that is formatted differently than a number to the left of the decimal point.

15. An infusion system according to claim 1, wherein at least one of the one or more screens is a status screen.

16. An infusion system according to claim 1, wherein the one or more screens includes one or more set screens.

17. An infusion system according to claim 16, wherein the one or more set screens includes a maximum basal rate screen.

18. An infusion system according to claim 16, wherein the one or more set screens includes a maximum bolus screen.

19. An infusion system according to claim 1, wherein the one or more screens includes one or more select screens.

20. An infusion system according to claim 19, wherein the one or more select screens includes a screen to select an insulin type.

21. An infusion system according to claim 19, wherein the one or more select screens includes a screen to select a reservoir type.

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22. An infusion system according to claim 19, wherein the one or more select screens includes a screen to select a language.

23. An infusion system according to claim 1, further including a housing that houses the reservoir, the drive mechanism, the input device, the processor, and the display.

24. An infusion system according to claim 23, further including an infusion set and tubing having a first end and a second end, wherein the first end of the tubing is connected to the reservoir and the second end of the tubing is connected to the infusion set.

25. An infusion system according to claim 24, wherein a manual prime may be used to fill the tubing with fluid from the reservoir.

26. An infusion system according to claim 24, wherein a fixed prime may be used to fill the tubing with fluid from the reservoir.

27. An infusion system according to claim 24, wherein information is shown on the display screen to guide the individual through the steps to prime the infusion system.

28. An infusion system according to claim 1, wherein one of the at least two menu items is highlighted when the menu is displayed.

29. An infusion system according to claim 28, wherein the one of at least two menu items that is highlighted when the menu is displayed is dependent on a function that the infusion system is performing when the menu is displayed.

30. An infusion system according to claim 1, further including a communication device.

31. An infusion system according to claim 30, wherein selection of at least one of the at least two menu items causes the display to show a screen that allows an individual to signify the identity of a device, which thereby configures the infusion system to accept communication from the device.

32. An infusion system according to claim 1, wherein the input device includes a keypad with one or more keys.

33. An infusion system according to claim 32, wherein when the infusion system is suspended from delivering fluid, fluid delivery is resumable with two or less keystrokes independent of the screen being displayed.

34. An infusion system according to claim 32, wherein the one or more keys includes an ACT key, and wherein pressing the ACT key enters a selection or a value into the processor and causes the display to exit a screen that displayed the selection or value.

35. An infusion system according to claim 32, wherein the one or more keys includes an Esc key, and wherein pressing the Esc key causes the display to exit a screen without entering a new selection or a new value into the processor.

36. An infusion system according to claim 32, wherein the one or more keys includes an Esc key, and wherein pressing the Esc key causes the display to exit a currently displayed screen and show a screen that was displayed just prior to the currently displayed screen.

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37. An infusion system according to claim 32, wherein a single keystroke is used to exit a Blank Screen and display at least one other screen.

38. An infusion system according to claim 37, wherein at least one of the at least one
5 other screen is a Main Menu screen.

39. An infusion system according to claim 37, wherein at least one of the at least one other screen is an Express Bolus screen.

10 40. An infusion system according to claim 37, wherein at least one of the at least one other screen is an Easy Bolus screen.

41. An infusion system according to claim 37, wherein at least one of the at least one other screen is a Status screen.

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42. A method of programming an infusion device which includes a reservoir containing fluid for delivery into a user, a drive mechanism to force fluid from the reservoir, an input device that accepts inputs from the user, wherein the input device includes one or more keys including an escape key, a processor that uses control parameters to control the drive
5 mechanism, wherein the control parameters may be changed through inputs from the user, and a display that receives information from the processor and visually displays screens containing the information for the user to see, the method comprising the steps of:

generating one or more menus;

accessing the one or more menus;

10 selecting a menu item from at least one of the one or more menus to access a set screen;

modifying a control parameter displayed on the set screen; and

either accepting the modification to the control parameter and exiting the set screen, or pressing the escape key to exit the set screen without accepting the modification to the control parameter.

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43. A programmable infusion device which includes a reservoir containing fluid for delivery into a user, a drive mechanism to force fluid from the reservoir, an input device that accepts inputs from the user, wherein the input device includes one or more keys, a processor that uses control parameters to control the drive mechanism, wherein the control parameters may
5 be changed through inputs from the user, and a display that receives information from the processor and visually displays screens containing the information for the user to see, the infusion device comprising:

generating means for generating one or more menus;

accessing means for accessing one or more menus;

10 selecting means for selecting a menu item from at least one of the one or more menus to access a set screen;

modifying means for modifying a control parameter displayed on the set screen;

accepting means for accepting the modification to the control parameter and exiting the set screen; and

15 escape key means for exiting the set screen without accepting the modification to the control parameter.

44. An infusion system according to claim 19, wherein the one or more select screens includes a screen to select a therapy.

20 45. An infusion system according to claim 1, wherein the input device includes one or more soft keys.

46. An infusion system according to claim 1, wherein the one or more screens
25 includes one or more confirmation screens.